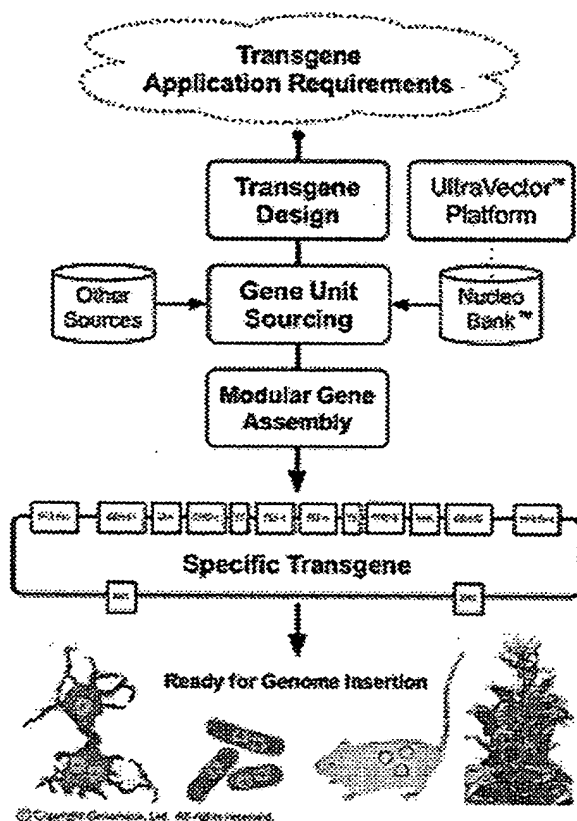


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Thomas Reed, Ph.D.
Chief Science Officer
Genomatix, Ltd.

- Knockout targeting
- Codon-optimized expression
- Reporter constructs
- Tissue-specific gene expression
- Adenoviral shuttle vectors
- Probe templates
- Combinations of above
- Other specialized applications

- Improved accuracy for lower cost
- Faster production of transgenes
- Multiple gene units per transgene
- Rapid reuse with new gene units
- Higher success rates
- Stock vector frameworks
- NucleoBank™ storage/retrieval

Detailed information on Genomatix technologies and services is available on the following pages:

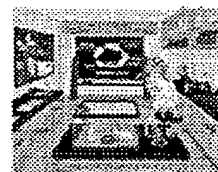
UltraVector™ System	Transgene Services	Ancillary Services
UltraVector™ Technology UltraVector™ Frameworks Licensing Approach	Design & Assembly Pricing Information	NucleoBank™ Storage/Retrieval Genotyping BAC Isolation

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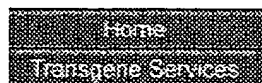
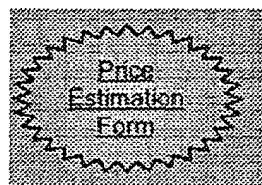
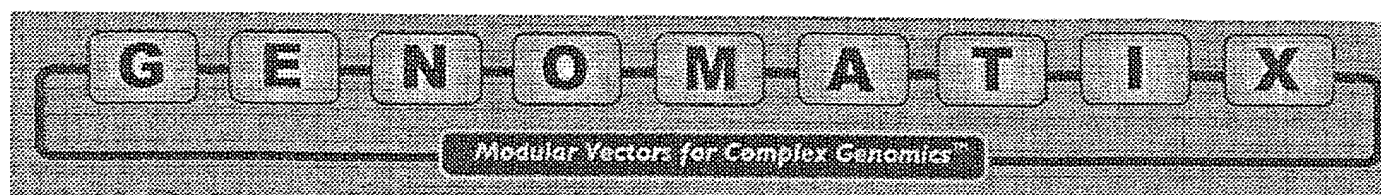
631-4362.

Information Email Address s:
info@genomatix.com (general info)
science@genomatix.com (scientific info)

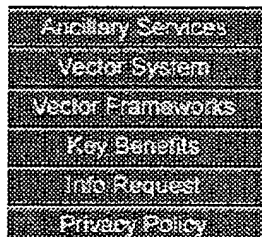
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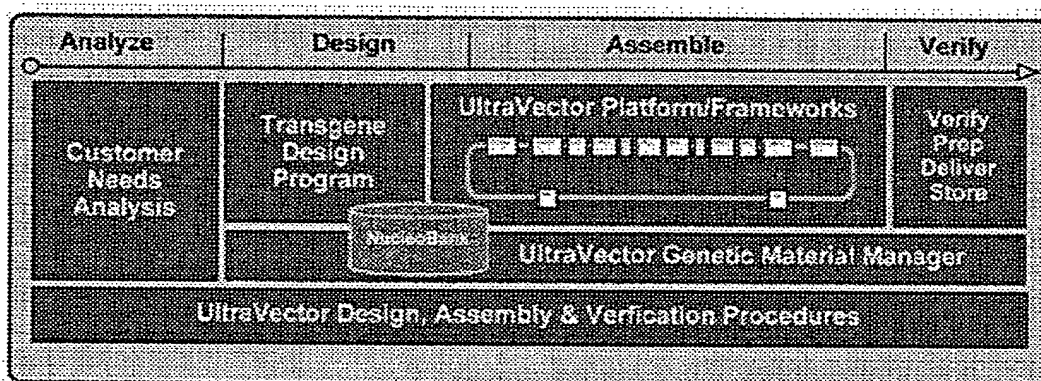
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Genomatix scientists and technicians are highly proficient at using our modular UltraVector System to rapidly design and assemble complex transgenes for life science researchers and bio-production companies across industry, academia and government. The extensive experience of our services team, combined with the unique advantages of our modular UltraVector System, allows Genomatix to offer a far more productive alternative to slower, more traditional methods of designing and building complex transgenes.

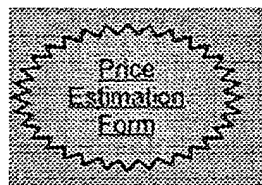
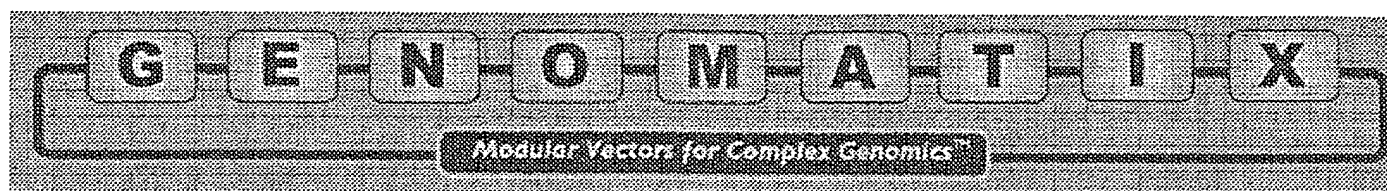
- **Knockout Targeting Vectors**
 - Constitutive knockouts
 - Inducible knockouts
 - Tissue-specific inducible knockouts
- **Tissue-Specific Gene Expression**
- **Reporter Constructs**
- **Multi-Function Combinations**
 - Knockouts with reporter constructs
 - Exon replacement knock-ins
 - Locus-specific multi-genic integration
- **Adenoviral Shuttle Vectors**
- **Codon-Optimized Expression**



The Genomatix transgene design and assembly process consists of four distinct phases:

1 - Analyze	Genomatix scientists analyze the performance and application criteria to be encoded within the customer's desired transgene.
2 - Design	A Genomatix scientist takes the resulting analysis and designs an UltraVector transgene that will meet those criteria.
3 - Assemble	Genomatix technicians assemble the actual transgene using the selected UltraVector framework, modules and customer-specific genetic units.
4 - Verify & Prep	Genomatix technicians verify the encoded sequence integrity and prepare the transgene for delivery and storage.

Please see our [2004 Price Schedule](#) and [Price Estimation Form](#). Please contact us at 888-236-3029 or info@genomatix.com if you need more information or assistance.



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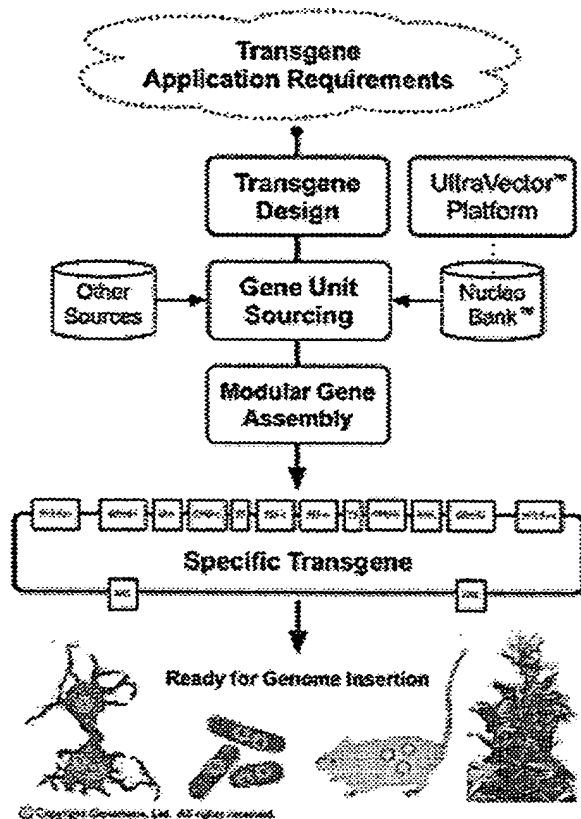
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Need a knockout vector? We specialize in constitutive and inducible knockout transgenes

Genomatix is a global service provider of modular vectors for complex genomics applications. We use our patent-pending UltraVector™ System, coupled with our advanced Transgene Services, to provide our R&D customers a faster and more affordable way to acquire transgenes that will meet their application requirements.

"The rapidly growing complexity of functional genomics demands a shift to modular vectors - in much the same way increasing complexity of computer applications forced a shift from monolithic software programming to modular, object-oriented strategies."

Thomas Reed, Ph.D.
Chief Science Officer
Genomatix, Ltd.



Transgene Applications

Knockout targeting
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Reporter constructs
Tissue-specific gene expression
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Key Benefits

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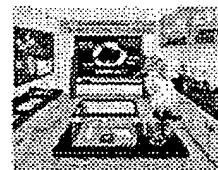
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